

CLAIMS

9. A remotely controlled gyrostabilized operator crane, comprising a base; a vertical support horizontally turnably mounted on said base; a drive provided for said vertical support and connected with said vertical support for driving the latter; a boom vertically turnably mounted on said vertical support; a vertical drive provided for said boom and connected with said boom for vertically turning said boom; a hinge link for placing movie and television shooting equipment, said hinge link being mounted on an end of said boom turnably around a hinge link suspension horizontal axis which is perpendicular to an axis of said boom; a drive provided for said hinge link; a mechanism of parallelogram type which connects said type for said hinge link with said hinge link; a counterweight mounted in a tail part of said boom; a control block and electronic blocks for vertical and horizontal turning of said boom, said boom including an inner part which is turnable along said axis of said boom; a drive for said inner part of said boom; said inner part being connected with said drive for said inner part and also connected with said hinge link.

10. A remotely controlled gyrostabilized operator crane as defined in claim 9, wherein said mechanism of parallelogram type includes a driving block and a driven block connected by a cable.

11. A remotely controlled gyro stabilized operator crane as defined in claim 9; and further comprising a first gyroscopic sensitive element of said hinge link mounted so that its measuring axis is parallel to said hinge link suspension axis; a second gyroscopic sensitive element in said inner part of said boom mounted so that its measuring axis is parallel to said axis of said boom; a third sensitive element mounted on said boom so that its measuring axis is parallel to a suspension axis of said boom; a fourth gyroscopic sensitive element mounted on said vertical support so that its measuring axis is parallel to an axis of suspension of said vertical support; longitudinal and transverse accelerometers mounted on said hinge link so that their measuring axis and the axis of suspension of said hinge link are perpendicular; a further transverse accelerometer mounted on said inner part of said boom so that its measuring axis is parallel to said axis of suspension of said hinge link; electronic blocks of said hinge link and said inner part of said boom, wherein a first input of said electronic block of said hinge link is connected with an output of said longitudinal accelerometers, a second input of said electronic block of said hinge link is connected with an output of said first gyroscopic element of said hinge link, an output of said electronic block of said hinge link is connected with an input of said drive of said hinge link, a first input of said electronic block of said inner part of said boom is connected with an output of a transverse accelerometer, a second input of said electronic block of said inner part of said boom is connected with an output of said first gyroscopic sensitive element of said inner

part of said boom, an output of said electronic block of said inner part of said boom is connected with an input of said drive of said inner part of said boom, an input of an electronic block for vertical turning of said boom is connected with an output of said control board for vertical turning of said boom, a second input of said electronic block for vertical turning of said boom is connected with an output of said second gyroscopic sensitive element of said boom, a first input of said electronic block for vertical turning of said boom is connected with an input of said vertical accelerometer, an input of said electronic block for vertical turning of said boom is connected with an input of said vertical drive of said boom, a first input of the electronic block horizontal turning of said boom is connected with an output of said third gyroscopic sensitive element of said vertical support, a second input of said electronic block of horizontal turning of said boom is connected with an output of said control board for horizontal turning of said boom, an output of said electronic block for the horizontal turning of said boom is connected with an input of said drive of said vertical support.

12. A remotely controlled gyrostabilized operator crane as defined in claim 9, wherein said vertical drive of said boom, said drives of said inner part of said boom and said hinge link are mounted in said tail part of said boom and perform a function of said counter weight.